

WHAT IS CLAIMED IS

1. A liquid crystal display device comprising a pixel board on which a light shielding film, a first insulating film, a semiconductor layer, a second insulating film serving as a gate insulating film and gate lines are formed, a 5 source region, a drain region and a channel region or both of a channel region and LDD region being formed in said semiconductor layer,

wherein said light shielding film is made of a conductive material, and contact holes for connecting each gate line with said light shielding film are provided in the neighborhood of the side surface of said channel region

10 or/and said LDD region.

2. A liquid crystal display device comprising a pixel board on which a light shielding film, a first insulating film, a semiconductor layer, a second insulating film serving as a gate insulating film, gate lines, a third insulating film and data lines are formed, a source region, a drain region and a channel 15 region or both of a channel region and LDD region being formed in said semiconductor layer,

wherein said light shielding film is made of a conductive material, and contact holes for connecting to said light shielding film are provided below each data line.

20 3. The liquid crystal display device as claimed in claim 1, wherein a third insulating film and data lines are further formed on said pixel board and another contact holes for connecting to said light shielding film are provided below each data line.

4. The liquid crystal display device as claimed in claim 1, wherein said 25 contact holes are filled with a gate line material.

5. The liquid crystal display device as claimed in claim 2, wherein said contact holes are filled with a gate line material.

6. The liquid crystal display device as claimed in claim 3, wherein said contact holes and said another contact holes are filled with a gate line

5 material.

7. The liquid crystal display device as claimed in claim 1, wherein said contact holes serve as a light shielding region.

8. The liquid crystal display device as claimed in claim 2, wherein said contact holes serve as a light shielding region.

10. The liquid crystal display device as claimed in claim 3, wherein said contact holes and said another contact holes serve as a light shielding region.

10. The liquid crystal display device as claimed in claim 1, wherein said light shielding film is made of heat-resistant material.

11. The liquid crystal display device as claimed in claim 2, wherein said light

15 shielding film is made of heat-resistant material.

12. The liquid crystal display device as claimed in claim 3, wherein said light shielding film is made of heat-resistant material.

13. The liquid crystal display device as claimed in claim 1, wherein said light shielding film, said first insulating film, said semiconductor layer, said second

20 insulating and said gate lines are successively laminated in this order.

14. The liquid crystal display device as claimed in claim 2, wherein said light shielding film, said first insulating film, said semiconductor layer, said second insulating film, said gate lines, said third insulating film and said data lines are successively laminated in this order.

25 15. A liquid crystal projector apparatus comprising:

a liquid crystal display device including a pixel board on which a light shielding film, a first insulating film, a semiconductor layer, a second insulating film serving as a gate insulating film and gate lines are formed, a source region, a drain region and a channel region or both of a channel region and LDD region being formed in said semiconductor layer, wherein said light shielding film is made of a conductive material and contact holes for connecting each gate line with said light shielding film are provided in the neighborhood of the side surface of said channel region or/and said LDD region;

10 a light source for irradiating light to said liquid crystal display device;

an optical system for guiding the light from said light source to said liquid crystal display device; and

15 an optical system for projecting information light from said liquid crystal display device.

16. A liquid crystal projector apparatus comprising:

a liquid crystal display device including a pixel board on which a light shielding film, a first insulating film, a semiconductor layer, a second insulating film serving as a gate insulating film, gate lines, a third insulating film and data lines are formed, a source region, a drain region and a channel region or both of a channel region and LDD region being formed in said semiconductor layer, wherein said light shielding film is made of a conductive material, and contact holes for connecting to said light shielding film are provided below each data line;

25 a light source for irradiating light to said liquid crystal display

device;

an optical system for guiding the light from said light source to said liquid crystal display device; and

an optical system for projecting information light from said liquid

5 crystal display device.